

Club Repeaters W6RGG/R 147.24+, 442.200 (107.2PL)



JUG

## NEXT NCCC MEETING!

This meeting will be held on Friday, September 20th, in Building 50 at HP Santa Clara. You get there by turning right from westbound Stevens Creek Boulevard right after Lawrence Expressway, and just before the on-ramp to northbound 280. Rusty's pizza at 6:30 PM, followed by the meeting at 7:30. CU there!

## COOK BOOK

¡HOLA GANG! It looks like the time of year to fix the antennas and bring up the PED program to get the rust of the CW part of the brain. I hope we can count on most (all!?) of our members to get on the air for the California QSO party (October 5&6) and let the world know the NCCC is still alive and well. Please look elsewhere in this JUG for the results of the contest "survey" and now, with the direction defined, start planning what you can best do to help us meet our club's goals this season. Work has just started on the busted stuff at my place in Nevada City and I hope most of you don't have as much work to do as will be needed there!! Thanks to you all for the input on what we should do this year and I hope that we all can have some real fun doing it! CU in the TEST

73, Carl/AI6V

## NCCC OFFICERS

If you have a question or a suggestion, let your officers know about it! (E-mail addresses are given. Other particulars can be found in the NCCC roster.)

President ..... Carl Cook, AI6V ..... ai6v@aol.com  
 Vice President/CC ..... Jim Hollenback, WA6SDM  
 ...jholly@cup.hp.com

Secretary/Treasurer ..... Dick Dievendorff, AA6MC  
 dieven@almaden.ibm.com

Directors .....

Ken Silverman, WM2C

ken.silverman@atlas.ccmil.airtouch.com

Ed Muns, W0YK ..... w0yk@msn.com

Dave Curtis, NG0X

David\_b\_curtis@ccm.sc.intel.com

Andy Faber, AE6Y ..... ae6y@aol.com

## FROM THE JUGHEAD

Please take just a moment to look at the address label that brought this issue of the JUG to you. Does it have a deft stroke with an orange hi-liter emphasizing your JUG subscription expiration date?

If so, that means this might be the last JUG you'll receive. Do you really want to let your membership lapse? As you know, membership in the NCCC brings many benefits,

The club has a membership of almost 200, and includes hams at every license level and age, from Jenny, KD6KKP, our 11 year-old who General, to OM's whose first callbook listing was on stone tablets.

Our meetings are always informative and downright fun! Our common interest is contesting, but our membership includes well-known DX'ers, VHF operators, and just about any of the interest groups in amateur radio, and we have an "open" 2 meter repeater.

If you want to continue to enjoy the camaraderie, take advantage of the expertise of the membership, and continue to belong to the team that won SS last year for the fourth consecutive time, (and has pledged to win it again!) the group that sponsored WRTC, the contesting



event of the decade, and perennial sponsors of the most popular state QSO party in existence, then you can secure all of these blessings for yourself if you just fill in the renewal form on the last page, enclose it and your check in an envelope, and mail it to AA6MC at the address shown on the form. Another positive outcome of this action is that you will continue to receive the JUG without interruption through the soon-to-start contest "season."

DO IT NOW!

vy 73, AB6YL

## THE NCCC 5 MEG AWARD

The 5 Meg award has generated a lot of interest since its inception in July '86. From time to time, the rules and standings will be published in the JUG. Any questions about the rules, or of any points totals should be addressed to the VPCC and/or AD6E.

### PURPOSE:

This award is intended to give recognition for sustained efforts by NCCC members. All too often, club members compete using moderate stations, year in and year out, contributing to the club's score, without a realistic chance to win major awards. The Five Million Point Award is designed to rectify this situation. This award will be issued on a once-per-person basis.

### HOW TO ENTER:

Send a copy of each of your Summary Sheets to VPCC; WA6SDM. In the case of club contests, two summary sheets should be submitted, one sheet for the club entry and a second marked "Five Million Point Award".

### RULES:

1. This award requires the accumulation of five million points.
2. Point totals shall be accrued by the VPCC from copies of Summary Sheets on which the contestant has submitted a valid contest entry.
3. Any contest entry may be used for submission as long as the entrant is competing from within NCCC territory.

4. It is not necessary for the NCCC to be participating as a club for your point totals to count towards this award.

5. Participation with a Multi/Multi or Multi/Single station can count for this award. To calculate your portion for this award, divide the total score by the total number of operators. Submit a copy of the summary sheet claiming that portion of the effort.

### STANDINGS:

|    |        |            |
|----|--------|------------|
| 1  | K6HNZ  | 35,914,888 |
| 2  | KI3V   | 28,355,656 |
| 3  | N6RO   | 26,819,288 |
| 4  | WN4KKN | 26,301,288 |
| 5  | N6EK   | 21,656,352 |
| 6  | WA6VEF | 20,448,292 |
| 7  | NU6S   | 20,398,852 |
| 8  | WZ6Z   | 18,046,620 |
| 9  | N6IG   | 17,331,844 |
| 10 | N6TV   | 16,930,192 |
| 11 | N6TIB  | 13,751,745 |
| 12 | KI6CG  | 13,420,018 |
| 13 | W1FEA  | 13,336,074 |
| 14 | W6RGG  | 13,060,580 |
| 15 | K6TMB  | 12,639,257 |
| 16 | WA6AUE | 12,425,900 |
| 17 | AD6E   | 11,349,419 |
| 18 | N3AHA  | 10,767,274 |
| 19 | N6CCL  | 10,747,515 |
| 20 | W6FSJ  | 10,580,016 |
| 21 | N6IP   | 10,415,953 |
| 22 | W6BSY  | 9,619,870  |
| 23 | AG6D   | 9,535,259  |
| 24 | AA6KX  | 9,456,689  |
| 25 | N6KT   | 9,028,478  |
| 26 | WX6M   | 8,817,024  |
| 27 | AA6MC  | 8,346,126  |
| 28 | W6BIP  | 8,337,645  |
| 29 | W6OAT  | 8,204,862  |
| 30 | NI6T   | 7,654,918  |
| 31 | W6QHS  | 7,528,519  |
| 32 | N1EE   | 7,483,119  |
| 33 | NF6S   | 6,701,070  |
| 34 | W6ISQ  | 6,478,704  |
| 35 | AJ6V   | 6,110,129  |
| 36 | KI6EZ  | 5,937,153  |
| 37 | AE6Y   | 5,835,364  |
| 38 | KS6H   | 5,171,702  |
| 39 | K6MA   | 5,104,762  |
| 40 | VE7NKI | 4,845,542  |
| 41 | AI6V   | 4,561,044  |
| 42 | WB6MZQ | 4,455,479  |



|    |        |           |     |        |         |
|----|--------|-----------|-----|--------|---------|
| 43 | W6REC  | 4,236,796 | 97  | W6RJ   | 481,335 |
| 44 | K6PU   | 4,070,772 | 98  | KD6UO  | 473,396 |
| 45 | N6DA   | 3,963,270 | 99  | AF6S   | 464,500 |
| 46 | N4TQO  | 3,872,431 | 100 | AB6ZV  | 444,878 |
| 47 | WA6SDM | 3,521,121 | 101 | N6JL   | 415,044 |
| 48 | N6GG   | 3,465,656 | 102 | KA6W   | 407,609 |
| 49 | NB6L   | 3,431,467 | 103 | K6BPB  | 394,118 |
| 50 | AA6PG  | 3,398,376 | 104 | W6WB   | 393,610 |
| 51 | K6PJY  | 3,177,431 | 105 | N6OM   | 393,428 |
| 52 | W0ZZ   | 3,042,893 | 106 | N7STU  | 360,786 |
| 53 | WC6H   | 3,033,416 | 107 | KJ6LD  | 358,745 |
| 54 | KK6QM  | 2,913,819 | 108 | AC6DQ  | 355,171 |
| 55 | K2MM   | 2,871,643 | 109 | N6RA   | 342,580 |
| 56 | WR6R   | 2,731,189 | 110 | W6SUN  | 336,616 |
| 57 | K4UVT  | 2,723,886 | 111 | N6XI   | 329,937 |
| 58 | WM2C   | 2,707,592 | 112 | N6WFK  | 325,192 |
| 59 | W6EEN  | 2,541,236 | 113 | AA6YX  | 303,923 |
| 60 | K3EST  | 2,295,536 | 114 | K7YNO  | 303,625 |
| 61 | K6SIK  | 2,257,137 | 115 | N6WCW  | 293,816 |
| 62 | N6EE   | 2,205,211 | 116 | K6WJ   | 282,384 |
| 63 | N6BT   | 2,197,484 | 117 | WA6CTA | 258,818 |
| 64 | AE0M   | 2,110,852 | 118 | N6PN   | 249,476 |
| 65 | AB6YL  | 2,085,977 | 119 | KN6K   | 245,797 |
| 66 | W6SZN  | 2,085,426 | 120 | W6CF   | 242,212 |
| 67 | KF6VU  | 1,951,774 | 121 | NP4IW  | 239,872 |
| 68 | WB6CJE | 1,891,679 | 122 | K6MO   | 231,206 |
| 69 | K6HIH  | 1,859,386 | 123 | AC6NS  | 216,974 |
| 70 | N6ZB   | 1,691,898 | 124 | WW6D   | 213,074 |
| 71 | KJ6DL  | 1,679,188 | 125 | K6KM   | 208,046 |
| 72 | W6XX   | 1,667,207 | 126 | KM6OH  | 205,239 |
| 73 | K6LRN  | 1,635,231 | 127 | KN6BD  | 177,694 |
| 74 | AA6QY  | 1,534,284 | 128 | N0BBS  | 174,018 |
| 75 | AB6WM  | 1,496,720 | 129 | N6UUG  | 145,892 |
| 76 | KE6ZE  | 1,492,039 | 130 | WB6DSV | 142,496 |
| 77 | KG6LF  | 1,361,346 | 131 | N6JV   | 139,987 |
| 78 | WA6TKV | 1,335,444 | 132 | N6TNW  | 139,829 |
| 79 | N6ST   | 1,250,472 | 133 | NG0X   | 139,428 |
| 80 | WA8LLY | 1,071,193 | 134 | N6TNX  | 138,161 |
| 81 | KD6WKX | 1,061,916 | 135 | WA7NIN | 124,616 |
| 82 | W0YK   | 1,055,432 | 136 | N6GRJ  | 124,202 |
| 83 | KG6GF  | 1,029,947 | 137 | W6PLJ  | 117,062 |
| 84 | KA6ING | 964,603   | 138 | W6GPM  | 107,416 |
| 85 | W6FAH  | 916,096   | 139 | KD6NOS | 107,296 |
| 86 | WA6BXH | 778,291   | 140 | N2ALE  | 103,693 |
| 87 | K4TKM  | 764,885   | 141 | K6ANP  | 103,488 |
| 88 | W6OSP  | 736,289   | 142 | NG6X   | 82,218  |
| 89 | KN6SO  | 712,840   | 143 | W6ISO  | 73,348  |
| 90 | KD6KKP | 673,557   | 144 | KG6I   | 57,499  |
| 91 | AA6MV  | 669,690   | 145 | W6DPD  | 56,862  |
| 92 | WV6U   | 666,029   | 146 | WB6IRC | 55,900  |
| 93 | W6PYX  | 665,469   | 147 | AA6TY  | 55,310  |
| 94 | AB6EQ  | 617,136   | 148 | W6PGM  | 46,360  |
| 95 | W6VG   | 599,301   | 149 | KB6BD  | 46,150  |
| 96 | K6RK   | 513,307   | 150 | WB6ITM | 44,096  |



|     |        |        |
|-----|--------|--------|
| 151 | N6ZPX  | 39,800 |
| 152 | WE6F   | 38,182 |
| 153 | KV6S   | 35,640 |
| 154 | W6KZJ  | 32,980 |
| 155 | K6YT   | 28,905 |
| 156 | NC7K   | 27,600 |
| 157 | AJ6T   | 27,191 |
| 158 | KN6QT  | 25,840 |
| 159 | AC6AH  | 25,608 |
| 160 | WA0YQM | 24,680 |
| 161 | KC6ESL | 23,800 |
| 162 | W6SYL  | 21,351 |
| 163 | W6YKM  | 16,688 |
| 164 | N6OJ   | 11,562 |
| 165 | N7NG   | 11,310 |
| 166 | N6IPE  | 9,240  |
| 167 | NV6O   | 9,160  |
| 168 | KD6ZMJ | 4,514  |
| 169 | N6TPT  | 4,230  |
| 170 | N6IFW  | 3,594  |

73, AD6E

## Jim's Jotting's

During the August meeting the "mail-in" vote results were given, discussed and a decision as to the club's efforts for the next year was made.

First the vote. The contest with the highest number of "number one" votes was ... drum roll, please ... Sweepstakes. Yep, guess everyone likes being the *top* unlimited club in this contest. So can we make it five in a row? You bet we can. This club has some of the best operators in the world and we can come up with some real killer scores. So mark down November 2-4 for the CW weekend and November 16-18 for the phone weekend. Last year we mustered 99 logs. Let's try for more than that this year! Everyone should plan on getting on for *at least* 100 Q's in each mode. Hey, that and a couple bucks will get you the PIN from the ARRL. Anyone want to challenge KI3V/7 for the gavel? For the newer members, I still have a few of the Sweepstakes Handbooks left. They are a very valuable operating aid for any contest!

Moving on to the second most popular contest... we had CQ WW, followed by the CQ WPX and the ARRL DX contest. During the "live" discussion of the results, the members present really did not like the idea of focusing on both the SS and CQ WW in the same month, so we ultimately decided that it made more sense to go for SS in the fall and the ARRL DX contest in the spring season. The club's doing well in both the ARRL DX and the CQ WW depends heavily on DXpeditions. This year is the first year ARRL will allow DXpedition

scores for the DX competition, so the members present elected to concentrate the DXpedition efforts on the ARRL contest instead of the WPX contest. Ken, WM2C, has some hot info on DXpedition locations, so if you're interested contact Ken at 510-210-0410.

Hey, folks, this is going to be a fun year! We'll make our own spots!

## SCORES

CQ WPX: AB6YL 138,432

ARRL FIELD DAY: AB6YL 590

NAQP, CW: N1EE/6 20,817  
AB6YL 12,264

IARU HF: WA8LLY/6, MIXED, 2,054  
N1EE/6, MIXED, 312

That's all for this month. I will be moving QTH's in September so the packet will be off the air in early September until at least early November. The best bet on scores is mail, both snail and e. The snail mail address is 2021 Stonewood Ln, San Jose, 95132 until the 20th of September and then 1799 Westhaven Drive, SJ, 95132 after the 20th. e-mail, as before, will stay jholly@cup.hp.com.

73, WA6SDM

## Contest Calendar

### September

All Asian DX Contest, SSB

0000Z, Sept. 7 to 2400Z, Sept. 8

European Field Day, SSB

1500Z, Sept. 7 to 1500Z, Sept. 8

North American Sprint, CW

0000Z, Sept. 8 to 0359Z, Sept. 8

WAE DX Contest, SSB

0000Z, Sept. 14 to 2400Z, Sept. 15

Islands Contest 1700Z, Sept. 14 to 2300Z, Sept. 15

ARRL Sept. VHF QSO Party

1800Z, Sept. 14 to 0300Z, Sept. 16

North American Sprint, SSB

0000Z, Sept. 15 to 0359Z, Sept. 15

ARRL 10GHz Cumul. Contest

0800-2000 local time, Sept. 21 and Sept. 22

Washington State Salmon Run

1200Z, Sept. 21 to 0700Z, Sept. 22  
and 1200Z-2400Z Sept. 22

Scandinavian Act. Contest, CW

1500Z, Sept. 21 to 1800Z, Sept. 22

CQ WW RTTY 0000Z, Sept. 28 to 2400Z, Sept. 29

Scandinavian Act. Contest, SSB

1500Z, Sept. 28 to 1800Z, Sept. 29



## October

VK/ZL/Oceania Contest, Phone

1000Z, Oct 5 to 1000Z, Oct 6

EU Autumn Sprint, SSB

1500Z, Oct 5 to 1859Z, Oct 5

CQP 1600Z, Oct 5 to 2200Z, Oct 6

RGSB 21/28 MHz Contest, SSB

0700Z, Oct 6 to 1900Z, Oct 6

## CQP!!

Here's your invitation to attend the biggest and best Party on the contest calendar! The Northern California Contest Club invites you to participate in this year's California QSO Party (CQP), October 5th and 6th.

This is the chance to feel like rare DX right in your own shack! This is one operating event where everyone comes looking for you. We've mailed out invitations to over 1000 hams, inside California, outside of California, active hams in every state around the country, all VE provinces (including VE8) and many DX stations. Can you imagine what it will be like when those thousand hams call *you*... simply because you're in California? I figure there are 16,000 potential QSO's (8 bands, CW and phone). It should be a great weekend for good rate and lots of fun.

Again this year, we will be giving a personalized bottle of NCCC private reserve California wine (your name and call on the label) to the top 20 single operator entries in California as well as to the top 20 entries from outside California. There are trophies and plaques available to the top entries in each entry category. There will also be a handsome certificate for everyone who makes more than 100 QSOs. Also this year, we are bringing back the popular **CQP T shirt**. To qualify for the shirt, you must send in a log with more than 100 QSOs plus \$10 (results will be included).

The official rules are included in this JUG. If you prefer computer logging, as I do, the CQP is supported by several logging programs including K1EA's CT (version 8 or 9), and NA by LTA. A couple of NCCC members wrote their own program and have been using it for years. If you would like to try a copy, please send me a formatted IBM disk (3" or 5"). No charge.

Also, please contact N6TV, Bob, who is keeping track of which counties will be on the air

during CQP. If you have Internet access, you can e-mail Bob at: [N6TV@VNET.IBM.COM](mailto:N6TV@VNET.IBM.COM) With this information, Bob will know where to send last minute mobiles and county expeditions to make sure all 58 Calif. counties are on the air.

We hope to hear you on in the "California Sweepstakes" on October 5th and 6th!

73,

Jim Hollenback, WA6SDM

VP/CC

## RULES for the 1996 California QSO Party (CQP)

Begins: 1600 UTC - 5 October 1996

Ends: 2200 UTC - 6 October 1996

**OBJECT:** Stations outside of California work as many California stations in as many CA counties as possible. Stations in California work anyone.

**EXCHANGE:** California stations send QSO number and county. Stations outside of California send QSO number and State, Province, or Country.

**QSO POINTS:** Each complete non-duplicate Phone contact is worth 2 points. Each complete non-duplicate CW contact is worth 3 points. No partial contact credit. Duplicate contacts must be clearly identified in log.

**MULTIPLIERS:** California stations count states (50) and Canadian Provinces (VO/VE1-7 and VY1/VE8) for a possible total of 58. All others use California counties for a maximum of 58. CA stations on a county line may be claimed as a multiplier for any or all of the counties they give in their exchange. Number each multiplier as worked.

**SCORE:** The total score is the total number of QSO points multiplied by the total number of multipliers (58 Maximum).

**FREQUENCIES:** 160, 80, 40, 20, 15, 10, 6, and 2 Meters. WARC band contacts do not count. Suggest CW on 1805 and 40 kHz up from band edge. Phone on 1815, 3850, 7230, 14250,



21300, and 28450 KHz. Novices 10 kHz up from band edge and 28450.

Try CW on the half hour.

Try 160 meters at 0500 UTC; 80/75 meters at 0300 and 0700 UTC.

Try 147.54 MHz at 2000, 0000, and 0400 UTC.

**CLASS ENTRY:** Single Operator, Multi-Single, Multi-Multi, California County Expedition, Mobile, and Novice/Tech.

- Single Operator entries limited to 24 hours maximum; off times must be clearly marked in the log and be a minimum of 15 minutes.
- Multi-Operator entries may operate the full 30 hours.
- Stations may be worked once on CW and once on Phone per band.
- Single Operator and Multi-Single entries are allowed only one transmitting signal.
- All CW contacts must be made in the CW sub-band except for 160 Meters. MCW is not permitted.
- All contacts must be simplex.
- California stations that change counties are considered to be a new station and may be contacted again for point and multiplier credit. California stations operating on a county line may be counted only as one QSO.

**ENTRIES:** All logs and signed summary sheets must be submitted to: NCCC, c/o Al Maenchen, AD6E, 3330 Farthing Way, San Jose, CA 95132. Entries may be submitted in CT Version 8 (or later) format with .BIN, .SUM, and .ALL files on 5 1/4 or 3 1/2 diskettes (no 2.88M diskettes) with a signed hard copy summary sheet. Label each diskette with call entry category and state/county/province and country. All entries must be postmarked no later than 15 November 1994. Electronic logs may also be submitted by e-mail to [cqp@contesting.com](mailto:cqp@contesting.com). Please include \$1.00 for results if desired. Entries with 100 or more QSO's qualify for the special CQP T-shirt; please include your size (L/XL) and \$10 if you qualify and would like this special award. Entries of 200 or more QSO's must include duplicate check lists. For a CQP paperwork package containing log and summary sheets,

county abbreviations, and contest records send a business sized SASE to the address above.

**AWARDS:** Certificates - To top Single Op entry in each CA county, state, province, country, and stations with 100 or more QSO's.

Trophies - To top three non CA Single Op entries, top three CA Single Op, top CA Multi Single, top CA Multi Multi, top Single, Multi-single and Multi-Multi Op CA County expeditions, the Mobile (multi-county) Single Op and Multi Op with the most QSO's.

Special CQP Wine Award - The top 20 CA and top 20 non-CA Single Op operators will receive a personalized bottle of NCCC Private Reserve California Wine. Winners under the age of 21 will receive a non-alcoholic personalized award.

Special Awards - To the CA and non-CA Single Ops with the most QSO's, the most CW QSO's, the most Phone QSO's, to the top CA and non-CA Single Op low power entries (200 watts or less output), to the top CA and non-CA Single Op Novice/Technician entries, to the top scorer outside of the USA and Canada, and to the top club in California (5 entries minimum - NCCC and SCCC are ineligible).

## KEN'S PEN

Plan your ARRL Contest-expedition now!

Based on your mail-in votes and the member input at the August meeting, the NCCC will be making a major club effort in the upcoming ARRL DX Contests. In case you haven't heard, contest-expeditions can now count for the club score!

You can join the NCCC effort in two distinct ways:

- 1) Make a *major* effort from your home station, or
- 2) GO ON AN EXPEDITION!

What better time to go on an expedition than during the winter!? Just think of the warm weather of a Caribbean Island... and ohhh, those pileups! Never been on an expedition? They can be a lot easier than you think! A starter expedition should be a simple one, just to get your feet wet. There are a number of really easy expeditions to go on, the easiest being a rent-a-QTH where antennas and equipment are provided. Another option is to go to a US possession like the US Virgin Islands, Puerto Rico, Hawaii, and Alaska where there are no licensing or customs hassles.



Expeditions don't have to be expensive. As an example, the week long 4 person M/2 expedition that I'm planning has a budget of \$1450 per person for a hill-top villa that includes a cook and maid. This figure includes airfare, lodging, food, transportation, and miscellaneous ham equipment and contingency funds.

I will be coordinating NCCC contest-expedition efforts. I have considerable expedition experience, and I've also volunteered to assist with expedition ideas and planning. Please contact me if you are planning an expedition so I can update the "NCCC Reserve Your Island" list:

Kenny, WM2C: 510-210-0410 (home)

*Flash!* Ken knows of a few rent-a-QTH's that might still be available for the ARRL CW DX contest. Call him if you're interested! (...ed)

## Photographer Needed

to provide snapshots of the exciting activities at the NCCC meetings for inclusion in the JUG. Send your resume to... no, on second thought, just bring your camera to the next meeting!

## NCCC "Reserve Your Island" list for the ARRL DX Contest

### ARRL DX SSB:

|     |        |             |
|-----|--------|-------------|
| P4  | AI6V + | M/S Planned |
| KH6 | WR6R   | SOAB        |

### ARRL DX CW:

|    |                           |     |
|----|---------------------------|-----|
| 6Y | WM2C, N6TV,<br>N6BT, WS4E | M/2 |
|----|---------------------------|-----|

|     |       |             |
|-----|-------|-------------|
| P4  | AI6V+ | M/S Planned |
| KH6 | N6IG? | (Rumored)   |

## Classified Section

We've decided to include (as a courtesy to members, *i.e.* at no cost) ads in the JUG on a "space available" basis. Now is the time to list those 6 prop pitch motors you got from that B-36, and list your wants as well! Just snail-mail or e-mail the Jughead, wait for your ad to appear, then get ready for the phone calls.

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### USE THIS FORM TO PAY DUES FOR 1996-1997!

|                       |                                 |                      |
|-----------------------|---------------------------------|----------------------|
| Name: _____           | Full Memberships .....          | _____ x \$24 = _____ |
| Call: _____           | Family Memberships .....        | _____ x \$12 = _____ |
| Address: _____        | Associate/Student .....         | _____ x \$12 = _____ |
| _____                 | Donation to General Fund .....  | _____                |
| _____                 | Donation to Repeater Fund ..... | _____                |
| E-mail address: _____ | TOTAL enclosed .....            | _____                |
| Home phone: _____     |                                 |                      |
| Work Phone: _____     |                                 |                      |
| Comments: _____       |                                 |                      |

Cut out the mailing label to the right, and use it to mail the renewal form, "ballot" and dues check to:

Dick Dievendorff, AA6MC  
1211 Janis Way  
San Jose, CA 95125 - 4050

Your Full membership paid through  
June 30, 1997  
Charles Epps, W6OAT  
651 Handley Trail  
Redwood City, CA 94062

FIRST CLASS

FIRST CLASS



NCCC  
44 Toyon Terrace  
Danville, CA 94526

# HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION



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HRO Home Page  
on the World Wide Web

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Fax: 854-8048  
K1ZKM Mgr.  
WWW.HAMRADIO.COM

Redwood City, CA 94062  
280 Livingston St.  
(415) 534-5757  
(800) 854-8048  
Mark, K6BOP, Mgr.  
4-580 at 23rd Ave. ramp

Get a new rig and be ready for the new "Contest Season"



**IC-775DSP** HF Transceiver **IF-DSP!**

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Call Now For Your Low Price!



**FT-1000MP** HF Transceiver

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**TS-870S** HF Transceiver

- DSP in I.F. Stage!
- Dual mode noise reduction
- Digital Filtering (no opt. filters req.)
- 100W, 12V DC
- Built-in RS232, Windows software incl.

**YAESU**